## 

| 50<br>.LVPHLGDRE<br>.LVPHLGDRE<br>.LVPHLGDRE<br>.LVPHLGDRE<br>.LVPHLGDRE<br>.LVPHLGDRE   | 100 PGPGQDTDCR PGPGQDTDCR PGPGQDTDCR PGPGQDTDCR PGPGQDTDCR PGPGQDTDCR PGPGQDTDCR   |
|--|--|
| VGIYPSGVIG<br>VGIYPSGVIG<br>VGIYPSGVIG<br>VGIYPSGVIG<br>VGIYPSGVIG<br>VGIYPSGVIG<br>VGIYPSGVIG   | 100 QNNSICCTKC HKGTYLYNDC PGPGQDTDCR QNSICCTKC HKGTYLYNDC PGPGQDTDCR QNSQMRLRPC GQL************************************ |
| ULBLIL  VILELL  VILELL |  |
| LPL<br>LPL<br>LPL<br>LPL<br>LPL<br>LPLIL   | YIHP<br>YIHP<br>YIHP<br>YIHP<br>YIHP<br>YIHP<br>YIHP   |
| MGLSTVPDLL<br>MGLSTVPDLL<br>MGLSTVPDLL<br>MGLSTVPDLL<br>MGLSTVPDLL<br>MGLSTVPDLL<br>MGLSTVPDLL   | KRDSVCPQGK<br>KRDSVCPQGK<br>KRDSVCPQGK<br>KRDSVCPQGK<br>KRDSVCPQGK<br>KRDSVCPQGK<br>KRDSVCPQGK<br>KRDSVCPQGK   |
| HUMTNERB<br>TNE_LOCO8<br>TNE_20co5<br>TNE_20co9<br>TNE_19co1<br>TNF_10-co9   | HUMTNERB<br>TNF_10co8<br>TNF20co5<br>TNF20co9<br>TNF19co1<br>TNF10co1<br>TNF10-co9   |

| 15  |                       |                       |            |            |            |   |           |   |     |                                  |                       |                       |            |            |   |   |   |
|-----|-----------------------|-----------------------|------------|------------|------------|---|-----------|---|-----|----------------------------------|-----------------------|-----------------------|------------|------------|---|---|---|
|     |                       | TVCGCRKNQY            | TVCGCRKNQY | TVCGCRKNQY | TVCGCRKNQY | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | *******   | ******                                  | 200 | NTVCTCHAGE FLRENECVSC            | FLRENECVSC            | FLRENECVSC            | FLRENECVSC | FLRENECVSC | *******                                 | ~~~~~~                                  | ******                                  |
|     | EISSCTVDRD            | EISSCTVDRD            | EISSCTVDRD | EISSCTVDRD | EISSCTVDRD | VRP*~~~~~                               | ~~~~~~~   | ~ |     | NTVCTCHAGE                       | NTVCTCHAGE            | NTVCTCHAGE            | NTVCTCHAGE | NTVCTCHAGE | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~                                 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
|     | ENHLRHCLSC SKCRKEMGQV | ENHLRHCLSC SKCRKEMGQV | SKCRKEMGQV | SKCRKEMGQV | SKCRKEMGQV | LISKAARGPL                              | ~~~~~~~   | ~~~~~~                                  |     | RHYWSFNLFO CFNCSLCLNG TVHLSCQEKQ | TVHLSCQEKQ            | TVHLSCQEKQ            | TVHLSCQEKQ | TVHLSCQEKQ | ~~~~~~~                                 | ~~~~~~~                                 |   |
|     | ENHLRHCLSC            | ENHLRHCLSC            | ENHLRHCLSC | ENHLRHCLSC | ENHLRHCLSC | ENHLMPVLGV                              | *******   | ~~~~~~~~                                |     | CENCSICING                       | RHYWSENLFO CFNCSLCLNG | RHYWSENLFO CFNCSLCLNG | CFNCSLCLNG | CENCSICING | ********                                | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| 101 | ECESGSFTAS            | ECESGSFTAS            | ECESGSFTAS | ECESGSFTAS | ECESGSFTAS | ECESGSFTAS                              | ~~~~~~~   | *****                                   | 151 | RHYWSENLEO                       | RHYWSENLFO            | RHYWSENLFO            | RHYWSENLEO | RHYWSENLFQ | ~~~~~~~~~~~                             | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~                                |
|     | HUMTNFRB              | TNF 10co8             | TNF20co5   | TNF20co9   | TNF19co1   | TNF20co1                                | TNF10-co9 | TNF19co23                               |     | HIIMTNFRB                        | TNF 10co8             | TNF20co5              | TNF20co9   | TNF19co1   | TNF20co1                                | TNF10-co9                               | TNF19co23                               |

### Fig. 1(Cont. $^1$ )

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| 250 | I.                               | ~ ~                   | H.         | I.         | LSKA       | 2 2                                     | <b>?</b>                                | 5                                       | 300 | PLFG                | <b>?</b>   | 2 2 2      | PTPG       | ?          | ?                                       | 2 2 2                                   | ~~~ |
|-----|----------------------------------|-----------------------|------------|------------|------------|---|---|---|-----|---------------------|------------|------------|------------|------------|---|---|-----|
|     | CLLSLLE                          | ~~~~~~~~              | CLLSLLFI.  | CLLSLLFI   | CLLSLLTSKA | ~~~~~~                                  | ~~~~~~~                                 | ~ |     | PNPSFSPTPG          | ~~~~~~     | RP*~~~~~   | PNPSFSPTPG | ~~~~~~~    | ****                                    | ~~~~~~                                  |     |
|     | LLPLVIFFGL CLLSLLFI.             | $LLPLVRP^* \sim \sim$ | LLPLVIFFGL | LLPRVIFFGL | LLPLVIFFGL | ~~~~~~~~                                | ~~~~~~~~~                               | ~~~~~~~~                                |     | LEGITIKPLA          | ~~~~~~~~~~ | LEGITIKPLV | LEGTTTKPLA | ~~~~~~~~   | ~~~~~~~~                                | ~~~~~~~~                                |     |
|     | KGTEDSGTTV                       | KGTEDSGTTV            | KGTEDSGTTV | KGTEDSGTTV | KGTEDSGTTV | *******                                 | ******                                  | 2 |     | GKSTPEKEGE          | *******    | GKSTPEKEGE | GKSTPEKEGE | *******    | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~                                |     |
|     | SNCKKSLECT KLCLPQIENV KGTEDSGTTV | SNCKKSLECT KLCLPQIENV | KLCLPQIENV | KLCLPQIENV | KLCLPQIENV | ~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ****                                    |     | GLMYRYQR WKSKLYSIVC | *****      | WKSKLYSIVC | WKSKLYSIVC | *****      | ******                                  | *******                                 |     |
| 201 | SNCKKSLECT                       | SNCKKSLECT            | SNCKKSLECT | SNCKKSLECT | SNCKKSLECT | *****                                   | ~~~~~~                                  | ****                                    | 251 | GLMYRYQR            | ~~~~~~~    | GLMYRYQR   | GLMYRYQR   | ARGPLVRP*~ | ******                                  | 2 |     |
|     | HUMTNFRB                         | TNF 10co8             | TNF20co5   | TNF20co9   | TNF19col   | TNF20col                                | TNF10-co9                               | TNF19co23                               |     | HUMTNFRB            | TNF 10co8  | TNF20co5   | TNF20co9   | TNF19col   | TNF20col                                | TNF10-co9                               |     |

Fig. 1(Cont.  $^2$ )

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| 350 | TA                               | \$                                      | ?           | ?          | ?                                       | 5                                       | ?         | ?                                       | 400 | KL         | ?                                       | 5   | 2                                       | ?                                       | \$                                      | 5                                       | ?                                       |
|-----|----------------------------------|---|-------------|------------|---|---|-----------|---|-----|------------|---|---|---|---|---|---|---|
| (*) | DPILA                            | ~~~~~~~                                 | ~~~~~~~     | ~~~~~~~    | ~~~~~~~                                 | ~~~~~~~                                 | ~~~~~~~   | ******                                  | 7   | LRWKEFVRRL | ~~~~~~~                                 | ~~~~~~~   | ~~~~~~~                                 | ~~~~~~~~~~                              | ~~~~~~~                                 | ~~~~~~~                                 | *****                                   |
|     | QGA                              | 5                                       | 5           | 5          | 5                                       | 5                                       | 5         | 5                                       |     | LRW        | 5                                       | 5   | 5                                       | 5                                       | 5                                       | 5                                       | 5                                       |
|     | YTPGDCPNFA APRREVAPPY QGADPILATA | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | *********** | *******    | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~ | ******    | ******                                  |     | LYAVVENVPP | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~   | *************************************** | *************************************** | ********                                | *******                                 | *****                                   |
|     | YTPGDCPNFA                       | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | *******     | ARGPLVRP*~ | **********                              | *************************************** | ******    | ~~~~~~~~~                               |     | QSLDTDDPAT | *************************************** | ~   | *************************************** | *************************************** | *************************************** | ******                                  | *****                                   |
|     | PSSTFTSSST                       | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ******      | PSSTFTSSKA | ******                                  | *************************************** | ******    | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |     | QKWEDSAHKP | *************************************** | ***************************************   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ******                                  | *******                                 | ~ | ~ |
| 301 | FTPTLGFSPV                       | *************************************** | *******     | FTPTLGESPV | ******                                  | ******                                  | *****     | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 351 | LASDPIPNPL | *******                                 | 5 5 5 5 5 5 5 7 7 8 7 8 7 8 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~ | ******                                  | ******                                  | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
|     | HUMTNFRB                         | TNF 10c08                               | TNF20co5    | TNF20co9   | TNF19co1                                | TNF20co1                                | TNF10-c09 | TNF19co23                               |     | HUMTNFRB   | TNF 10co8                               | TNF20co5  | TNF20co9                                | TNF19co1                                | TNF20co1                                | TNF10-co9                               | TNF19co23                               |

Fig. 1 (Cont.  $^3$ )

# 

|                    | •                                       |   |   |   | 450                                     |
|--------------------|---|---|---|---|---|
|                    | 401                                     |   |   | THEFT                                   | MOGITTODIT                              |
| HITMTNFRB          | GI,SDHEIDRL                             | GLSDHEIDRL ELONGRCLRE AQYSMLATWR        | AQYSMLATWR                              | KKIPKKEAIL ELLGEVINDE                   | ELLIGN VINDE                            |
| TIOTI TINE TO      |   | 1                                       | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~                                | ~~~~~~~~                                |
| TNF 10co8          | ~~~~~~~                                 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 2                                       |   |   |
| TNESOCOS           | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~                                | ~~~~~~~~                                | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 2                                       |
| DOCCUTATION OF THE | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~                                | ~~~~~~~~~                               | ******                                  |
| T.N.F. Z.O.C.O.S   |   |   |   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~~                               |
| TNF19co1           | ~~~~~~~                                 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 222222222222222222222222222222222222222 |   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| TNF20co1           | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~~                               | ******                                  | ~~~~                                    |   |
| PAT 0-09           | ~~~~~~                                  | ~~~~~~~~                                | ~~~~~~~                                 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~                                     |
| OO OT TAIT         |   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~~                               | ~~~~~~~                                 |
| TNF19co23          | ~ | ~~~~                                    |   |   |   |
|                    |   |   |   |   |   |
|                    | 451                                     |   | 477                                     |   |   |
|                    | 1                                       |   | ひょうない                                   |   |   |
| HUMTNFRB           | DILGCLEDIE                              | EALCGPAALP PAFSLLA                      | PAFSLLR                                 |   |   |
| INF 10co8          | ~~~~~~~~                                | ~~~~~~~                                 | ?                                       |   |   |
| TNF20co5           | ~~~~~~~                                 | ~~~~~~~~                                | ~~~~~                                   |   |   |
| TNF20co9           | ~~~~~~~                                 | ~~~~~~~~                                | ~ ~ ~ ~ ~ ~                             |   |   |
| TNF19co1           | ~~~~~~~                                 | ~~~~~~~~                                | ~ ~ ~ ~ ~ ~ ~                           |   |   |
| TNF20co1           | ~~~~~~~~                                | ~~~~~~                                  | ~~~~                                    |   |   |
| TNF10-c09          | ~~~~~~~                                 | ~~~~~~~                                 | 2 |   |   |
| TNF19co23          | ~~~~~~~                                 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | × × × × × × × × × × × × × × × × × × ×   |   |   |

### Fig. 1 (Cont. 4)